

SINCE
1998

solaire
A Lagnuvo Initiative



Solaire X1 ZAP

FEATURES

Superior Performance

- DC Input: 200% oversizing, 20A current, 50V startup voltage
- In-built global MPP scan for higher yield efficiency

Assured Safety & Reliability

- AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported
- Optional external RSD (Rapid Shutdown) and integrated DC AFCI protection (Optional)
- In-built export control function

User Friendly Monitoring

- 10s level interval of data update (Optional, new WiFi dongle required)
- Quick and easy configuration (WiFi & APP)

Superb Adaptability

- Home EV Charger and Heat Pump Solution adaptable
- Mass management and broad extension via Datahub
- Master/Slave parallel solution via Modbus supported



	3K	3.3K	3.6K	4K	4.2K	5K
DC INPUT						
Max. PV array input power [Wp]	6000	6600	7200	8000	8000	10000
Max. PV input voltage [V]	600	600	600	600	600	600
Startup voltage [V]	50	50	50	50	50	50
Nominal input voltage [V]	360	360	360	360	360	360
MPP tracker voltage range [V]	40~560	40~560	40~560	40~560	40~560	40~560
No. of MPP trackers / String per MPP tracker	2 / 1					
Max. PV input current[A]	20A					
Isc PV Array Short Circuit current [A]	25A					

AC OUTPUT						
Rated AC output power [W]	3000	3300	3680	4000	4200	5000 ^①
Rated AC output current [A]	13.1	14.4	16	17.4 ^②	18.3	21.7
Max. AC output apparent power [VA]	3300	3630	4048 ^④	4000	4620	5000 ^②
Max. AC output current [A]	14.4	15.8	17.6 ^⑤	17.4 ^⑥	20.1	21.7 ^③
Nominal AC voltage / AC voltage range [V]**	220/230/240;90~290					
Nominal AC frequency / AC frequency range [Hz]**	50/60;±5					
Power Factor range	0.8leading~0.8lagging					
THDi (rated power) [%]	<3					

SYSTEM DATA						
Max. Efficiency [%]	98					
Euro. Efficiency [%]	97					
Standby consumption [W] @Night	<3					
Ingress protection	IP66					
Operating ambient temperature range [°C]	-25~60					
Max. operation altitude [m]	4000					
Relative humidity [%]	0~100					
Typical noise emission [dB]	25 ^⑦					
Storage temperature [°C]	-30~70					
Dimensions (W × H × D) [mm]	404×274×146					
Weight [kg]	11					
Cooling concept	Natural cooling					
Communication interfaces	USB/RS485/DRM, Optional: Meter/CT*					
Optional monitoring dongle	Pocket WiFi/LAN/4G					
Display	2 x LED + LCD (16 x 2) / APP					

PROTECTION						
Over / under voltage protection	Yes					
DC isolation protection	Yes					
Monitoring ground fault protection	Yes					
Grid monitoring	Yes					
DC injection monitoring	Yes					
Back feed current monitoring	Yes					
Residual current detection	Yes					
Anti-islanding protection	Yes					
Over temperature protection	Yes					
SPD (DC/AC)	Type II / Type II (Optional)					
Arc-fault circuit interrupter (AFCI)	Optional					
AC auxiliary power supply (APS)	Optional					
DC Switch	Optional					

STANDARD						
Safety	IEC / EN 62109-1 / -2					
EMC	EN61000-6-1 / 2 / 3 / 4, EN61000-3-2 / 3 / 11 / 12					
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR, PPDS, TOR					

① 5000 (4600 for VDE4105, 4999 for AS4777.2) ② 5000 (4600 for VDE4105, 4999 for AS4777.2) ③ 21.7 (20 for VDE4105) ④ 4048 (3680 For G98/G99, TOR and PPDS) ⑤ 17.6 (16 For G98/G99, TOR and PPDS)

⑥ For models with internal fan (Optional), typical noise emission is 30 dB